

**ABSTRACT OF THE DISCLOSURE**

This invention relates to a computer system with hot swap function, the computer system comprises a computer peripheral device having a signal connector in a predetermined position, a mother board having a Basic Input Output System (BIOS), a software controller for controlling the signal communication of the computer system and the power of the computer peripheral device, and a circuit board forming on one slot which is used for accommodating the computer peripheral device. The circuit board comprises a first connector and a second connector for connecting with the computer peripheral device, and a signal connection device for connecting with the motherboard and the software controller. The first connector and the second connector connect with the signal connection device through the circuitry of the circuit board. The computer peripheral device connects with one of the first connector and the second connector selectively by means of the predetermined position of the signal connector, the signal connection device judges the type of the computer peripheral device from the connection signal and transmits the result of the judgment to the mother board, and then the software controller starts the computer peripheral device according to the result of the judgment.